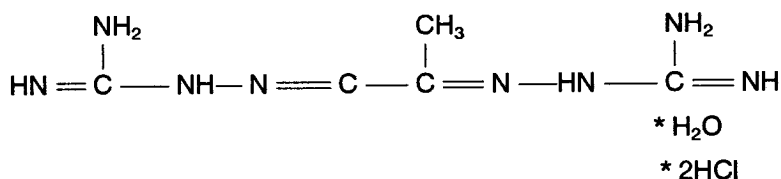


MITOGUAZONE

NSC - 32946



Chemical Name:

2,2'-(1-Methyl-1,2-ethanediylidene)bis(hydrazinecarboximidamide), dihydrochloride, monohydrate

Other Names:

Methyl GAG; Methylglyoxal Bisguanylhydrazone Dihydrochloride

CAS Registry Number: 7059-23-6

Molecular Formula: $\text{C}_5\text{H}_{12}\text{N}_8 \cdot 2\text{HCl} \cdot \text{H}_2\text{O}$

M.W: 275.1

Approximate Solubility:

(mg/mL)

0.1 N NaOH	soluble
Water	> 100
0.01 N NaOH	partly soluble
0.1 N HCl	partly soluble
MeOH	partly soluble
50% EtOH	partly soluble

Stability:**Solution:**

A solution of 100 mg/mL in water stored at room temperature for 44 days showed no decomposition.

Ultraviolet Absorption:

(0.1 N HCl)

$$\lambda_{\max} = 283 \pm 2 \text{ nm}$$

$$\epsilon = 36,200 - 40,000$$

High Performance Liquid Chromatography:

Column: 4 mm i.d. x 300 mm Spherisorb ODS

Mobile Phase: 4% acetonitrile in 0.1 M KH_2PO_4 , pH adjusted to 3.8 with H_3PO_4

Flow Rate: 2 mL/min

Detection: UV at 210 nm

Sample Preparation: 1 mg/mL in water or internal standard solution

Internal Standard: 1-naphthol-4-sulfonic acid Na salt (7 mg in 25 mL water)

Retention Volumes: 8.0 mL (NSC - 32946)
11.0 mL (I.S.)